

MECHANIC STUDY GUIDE

Drive Train Heavy Duty Trucks

Listed below are a number of items and subjects which make up the mechanic certification tests identified above. An individual's ability to pass the certification test will depend upon the amount of knowledge the person has concerning these items:

Clutch Diagnosis - 10%

Causes of hard shifting
Free play
Hydraulic clutch fluid
Reason for clutch slipping

Clutch Components - 12%

Clutch brake
Pilot bearing
Linkage adjustment

Axle & Driveline Diagnosis - 22%

Adjusting driveline angles
Pinion bearing preload
Axle shaft replacement
U-Joint angles
Air shift controls
Two-Speed planetary axle

Axle & Drive line Components - 22%

Ring and pinion backlash
Inter-axle differential lock
Drive shaft removal
Pinion bearing preload adjustment
U-joint replacement
Differential side bearing preload

Transmission Diagnosis - 22%

Causes of hard shifting
Gear slipout
Slow shifting problem in a twin countershaft transmission

Transmission Components - 14%

Synchronizers
Seal installation
10-Speed twin countershaft operation
4 & 5-Speed synchronized transmissions
Transmission Interlock

SAMPLE QUESTION:

Which of the following could cause driveline vibration?

- A. Bad engine mounts.
- B. Crossed plug wires.
- C. Over lubed universal joints.
- D. All of the above

ANSWER: A